

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/047569 A3

(51) International Patent Classification⁷: C25C 7/00

(21) International Application Number:
PCT/US2004/037777

(22) International Filing Date:
12 November 2004 (12.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2335-03 12 November 2003 (12.11.2003) CL

(71) Applicant (for all designated States except US): 3M
INNOVATIVE PROPERTIES COMPANY [US/US];
3M Center, Post Office Box 33427, Saint Paul, Minnesota
55133-3427 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RIBES FERNAN-
DEZ, Mauricio, [CUCL]; 3M Chile, Santa Isabel 1001,
Providencia, Santiago (CL). CONEJEROS OBREQUE,
Hernan, [CUCL]; 3M Chile, Santa Isabel 1001, Provi-
dencia, Santiago (CL). CEPEDA ROJAS, Alexander,

[CUCL]; 3M Chile, Santa Isabel 1001, Providencia,
Santiago (CL).

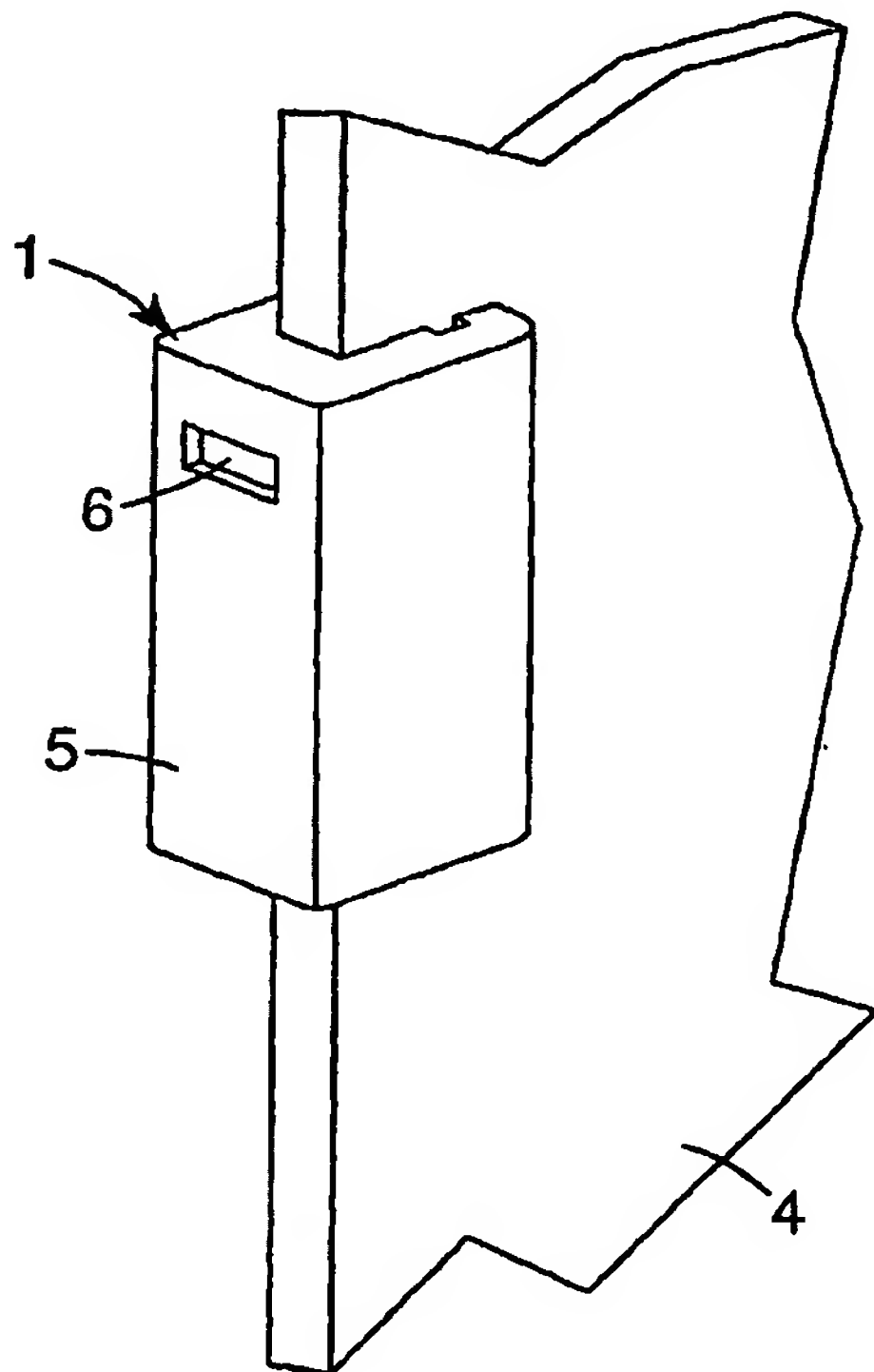
(74) Agents: BUSS, Melissa, E. et al.; Post Office Box 33427,
Saint Paul, Minnesota 55133-3427 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: CATHODE EDGE SUPPORT DEVICE FOR A REMOTE IDENTIFIER IN ELECTRO-WINNING AND ELECTRO
REFINING PROCESS



(57) Abstract: A device that supports a remote identifier for perma-
nent cathodes in the electro-winning process. A preferred embodi-
ment of the invention provides a support for a proximity identifica-
tion device for permanent cathodes that, when interconnected with
a remote system, provides for a record of its behavior and position
in time of each cathode during its useful life in an electro-winning
process.

WO 2005/047569 A3



SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

(88) Date of publication of the international search report:
9 February 2006

(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 29/2005 of 21 July 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.